

19. (Unamended From Previous Version) A method of producing a solar cell, comprising the step of forming a separation layer on a substrate and forming a semiconductor thin film having a semiconductor layer of a first conductivity type and a semiconductor layer of a second conductivity type on the separation layer, the step of bonding a light-transmitting film onto the semiconductor thin film with a light-transmitting adhesive, the step of exerting an external force on the light-transmitting film and thereby peeling the semiconductor thin film away from the substrate, and the step of forming an electrode on a back surface of the semiconductor thin film thus peeled.

20. (Unamended From Previous Version) The method according to Claim 19, wherein the peeling is carried out by rotating a thin film support member having a curved surface while supporting the light-transmitting film on the curved surface of the thin film support member.

21. (Unamended From Previous Version) A method of producing a solar cell, comprising the step of forming a separation layer on a substrate and forming a semiconductor thin film of a first conductivity type on the separation layer, the step of bonding a light-transmitting film onto the semiconductor thin film of the first conductivity type with a light-transmitting adhesive, the step of exerting an external force on the light-transmitting film and thereby peeling the semiconductor thin film of the first conductivity type away from the substrate, the step of forming a semiconductor thin film of a second conductivity type on a back surface of the first semiconductor thin film thus peeled, and the

step of forming an electrode on the semiconductor thin film of the second conductivity type.

22. (Unamended From Previous Version) The method according to Claim 21, wherein the peeling is carried out by rotating a thin film support member having a curved surface while supporting the light-transmitting film on the curved surface of the thin film support member.

27. (Unamended From Previous Version) A method of producing a solar cell, comprising the step of forming a separation layer on a substrate and forming a semiconductor thin film having a first semiconductor layer of a first conductivity type and a second semiconductor layer of a second conductivity type on the separation layer, the step of bonding an electroconductive film onto the semiconductor thin film with an electroconductive adhesive, the step of exerting an external force on the electroconductive film and thereby peeling the semiconductor thin film away from the substrate, and the step of forming an electrode on a back surface of the semiconductor thin film thus peeled.

28. (Unamended From Previous Version) The method according to Claim 27, wherein the peeling is carried out by rotating a thin film support member having a curved surface while supporting the electroconductive film on the curved surface of the thin film support member.